DOCKET NO.: 259551US6PCT/phh



### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

N RE APPLICATION OF:

Hideyuki SUZUKI

SERIAL NO: 10/509,872

**GROUP: 2131** 

FILED:

February 3, 2005

**EXAMINER:** 

FOR:

BROADCAST ENCRYPTION KEY DISTRIBUTION SYSTEM

### **LETTER**

Mail Stop DD Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith is an International Written Opinion for the Examiner's consideration. The reference(s) cited therein have been previously filed on October 1, 2004.

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

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#### PATENT COOPERATION TREATY

Translation From the INTERNATIONAL SEARCHING AUTHORITY PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing 18-05-2004 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION JSONY-511PCT See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/001076 03-02-2004 03-02-2003 International Patent Classification (IPC) or both national classification and IPC H04L 9/08 Applicant SONY CORPORATION This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer Date of completion of this opinion Facsimile No. Telephone No.

International application No.

PCT/JP2004/001076

Box	No. I	Basis of the report
I.	With	regard to the language, this opinion has been established on the basis of:
		the international application in the language in which it was filed
		the translation of the international application into
2.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed action, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		on paper
		in electronic form
	_	time of filing/furnishing
	C.	
		contained in the international application as filed
		filed together with the international application in electronic form
Ì		furnished subsequently to this Authority for the purposes of search
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:
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		PC1/5P2004/001076
В	ox No. IV Lack of unity of invention	
1.	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant	has, within the applicable time limit:
	paid additional fees	
	paid additional fees under protest and, where applicable, the protest fee	
	paid additional fees under protest but the applicable protest fee was not paid	
	not paid additional fees	
2.	This Authority found that the requirement of unity of invention is not complied windditional fees.	th and chose not to invite the applicant to pay
3.	This Authority considers that the requirement of unity of invention in accordance with Rule	s 13.1, 13.2 and 13.3 is:
	complied with	
	not complied with for the following reasons:	
	The inventions set forth in claims	s 1-6, 10-12,
	15, 16 relate to broadcast key distrib	ution for
	encrypting a payload or broadcast encry	yption key and a
	terminal identifier using a broadcast e	encryption key
	and transmitting them to another termin	nal.
	The inventions set forth in claims	s 7-9, 13, 17
	relate to unicast key distribution for	encrypting and
	decrypting a broadcast key and a termin	nal identifier
	using a unicast encryption key.	
	The inventions set forth in claims	3 14 and 18
	relate to key distribution via re-encry	ption
	processing, wherein the broadcast encry	ption key and
	the terminal identifier, which have bee	en encrypted by
	the first terminal using the unicast er	ncryption key,
	are decrypted by the second terminal, r	e-encrypted
	using the broadcast encryption key, and	transmitted to
	a third terminal.	
4.	Consequently, this opinion has been established in respect of the following parts of the intern	ational application
	all parts	· upproducts
	the parts relating to claims Nos.	

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1. State	ement	anations supporting such	<ol> <li>with regard to novelty, inventive step or industrial ap statement</li> </ol>	• • • • • • • • • • • • • • • • • • • •
N	lovelty (N)	Claims	14, 18	Y
		Claims	1-13, 15-17	I
Ir	eventive step (IS)	Claims		<del>,</del> —
		Claims	1-18	Y
In	dustrial applicability (IA)	Claims	1-18	1.0
		Claims		YI

Citations and explanations:

Filed 10-1-04

Document 1:

JP 2001-136159 A (Sony Corp.), 18 May

2001 Filed 10-1-04

Document 2:

JP 10-107832 A (Hitachi Software

Engineering Co., Ltd.), 24 April 1998

The inventions set forth in claims 1-6, 10-12, 15 and 16 are disclosed in document 1 (entire text and figures 1-6) cited in the international search report and, therefore, lack novelty and do not involve an inventive step.

The inventions set forth in claims 7-9, 13 and 17 are disclosed in document 2 (in particular, paragraphs [0026]-[0028] and [0044]-[0058]; fig. 1-4) cited in the international search report and, therefore, lack novelty and do not involve an inventive step.

The inventions set forth in claims 14 and 18 do not involve an inventive step in the light of documents 1 and 2.

It would be easy for a person skilled in the art to apply the device set forth in document 1 which is capable of performing unicast or broadcast using a key table

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

corresponding to a MAC address to the system for distributing information among a plurality of terminals, which is set forth in document 2, wherein encryption and decryption between the first terminal and the second terminal is performed using a common key shared by the first terminal and a second terminal, and re-encryption is performed by the second terminal.

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Box No. VIII

Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1-3 are not fully supported by the description.

That is to say, only the fact that a unicast key is used is disclosed with reference to the feature of payload encryption and decryption of the broadcast frame between terminal A, which corresponds to the first terminal, and terminal B, which corresponds to the second terminal.